



SCIENCE+SAFETY+CENTS

**MAKING IT ALL ADD UP**

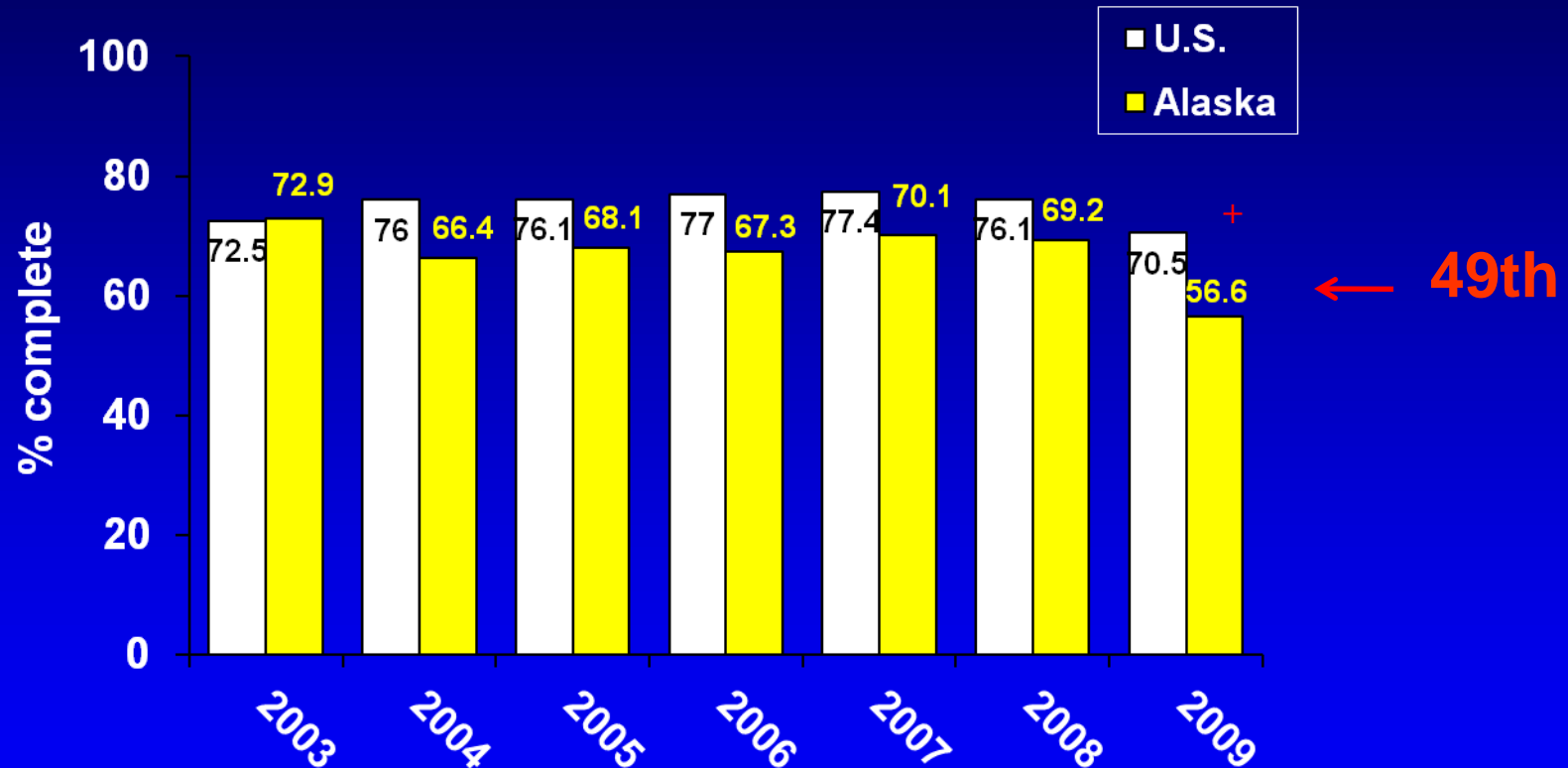
MAY 10-11, 2011 - ANCHORAGE MARRIOTT

# **Alaska Immunization Update**

## **May 10, 2011**

**Laurel Wood**  
**Alaska Immunization Program**

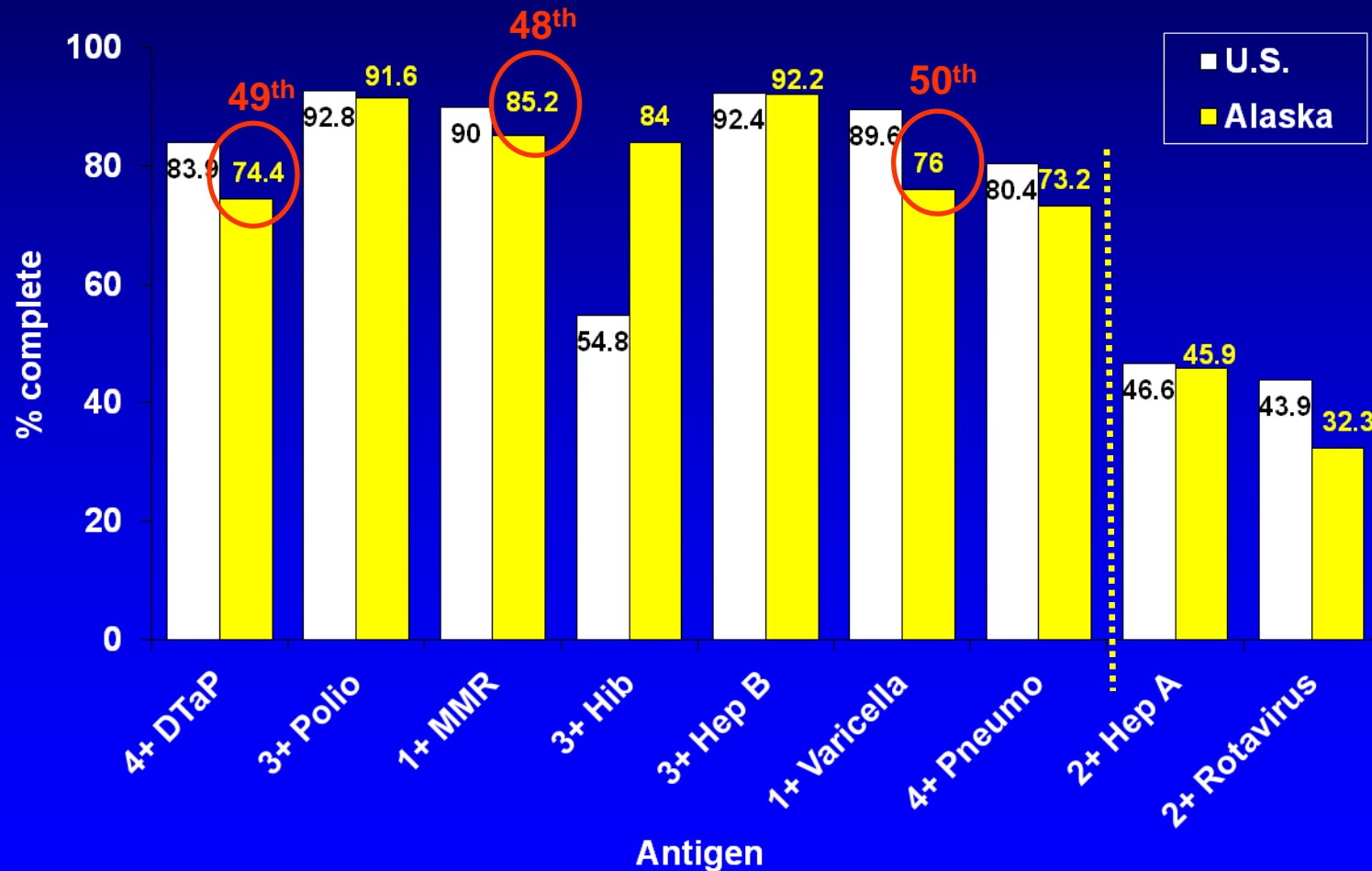
# 4/3/1/3/3/1\* Immunization Completion Rates, U.S. & Alaska, National Immunization Survey, 2003-2009



\* 4/3/1/3/3/1 – 4 DTaP/ 3 polio/ 1 MMR/ 3 Hib/ 3 Hep B/ 1 Varicella

† 4/3/1/0/3/1/4 – 2009 assessment ADDS pneumococcal vaccine (“4”) & EXCLUDES Hib (“0”)  
(vaccine shortage negatively impacted national coverage for Hib)

# Estimated Vaccine Coverage for Individual Antigens among Children Aged 19 – 35 Months, National Immunization Survey, U.S. & Alaska, 2009



Centers for Disease Control and Prevention

**MMWR**

Morbidity and Mortality Weekly Report

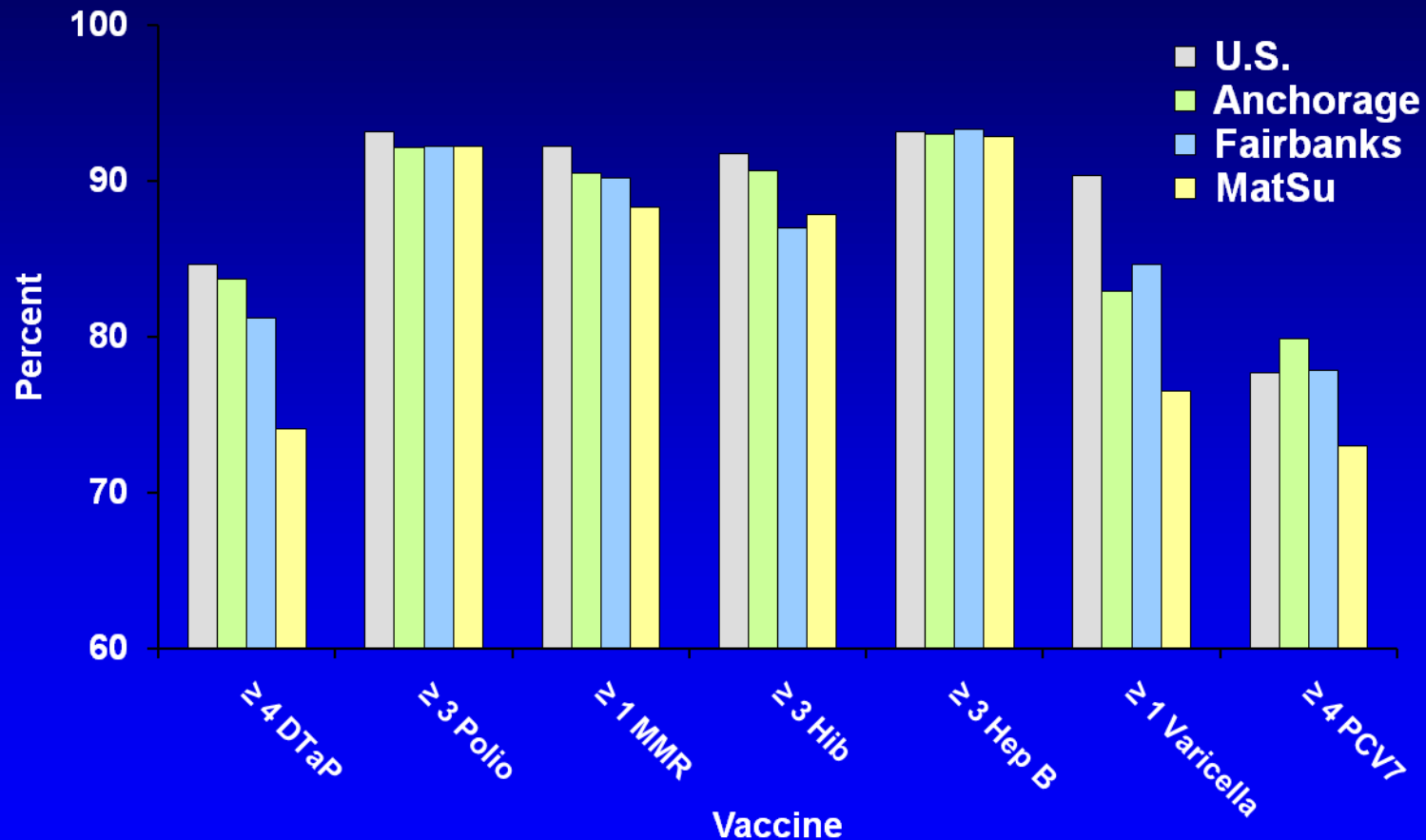
Surveillance Summaries / Vol. 60 / No. 4

April 29, 2011

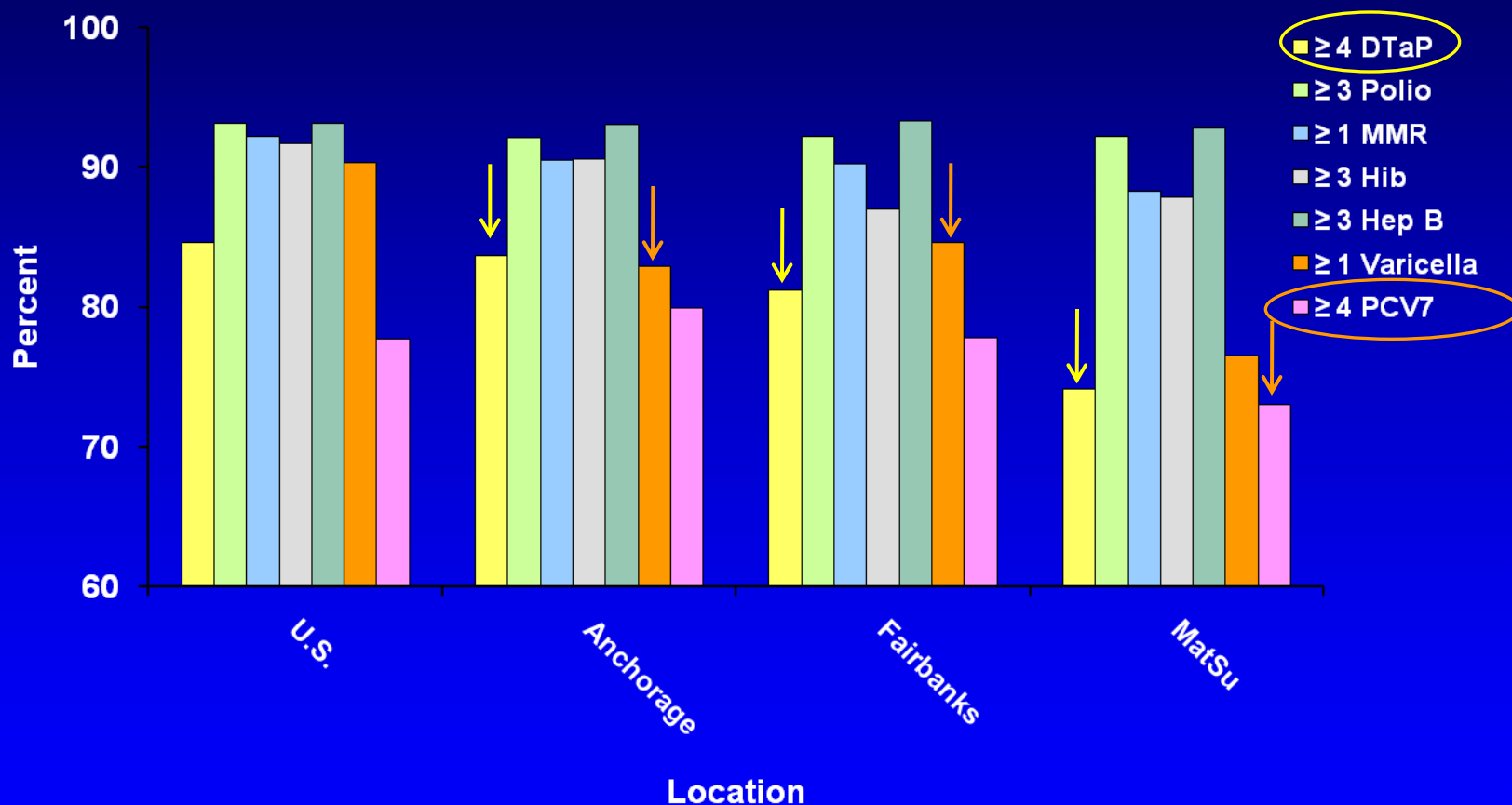
## County-Level Trends in Vaccination Coverage Among Children Aged 19–35 Months — United States, 1995–2008



# Estimated Coverage for Selected Vaccines Among Children Aged 19-35 months, U.S. and 3 Alaska Boroughs, 2007-2008 National Immunization Survey



# Estimated Coverage for Selected Vaccines Among Children Aged 19-35 months, U.S. and 3 Alaska Boroughs, 2007-2008 National Immunization Survey



# Reported Vaccine-Preventable Diseases, Alaska, 2006–2010

Disease	2006	2007	2008	2009	2010
Diphtheria	0	0	0	0	0
<i>Haemophilus influenzae</i> invasive disease*	12	16	21	21	27
Hepatitis A	2	5	5	2	4
Hepatitis B	8	9	10	5	5
Measles	0	0	0	0	0
Meningococcal invasive disease*	4	3	8	6	1
Mumps	3	2	5	6	1
Pertussis	91	89	277	58	44
Pneumococcal invasive disease*	--	149	158	151	110
Polio	0	0	0	0	0
Rubella	0	0	1	0	0
Tetanus	0	0	0	0	0
Varicella	--	43	76	57	45

\* Not all reported types/groups are vaccine-preventable

# It's a sign of "The Times"

## The New York Times

### Public Health Risk Seen as Parents Reject Vaccines

- March 21, 2008

## The Seattle Times

### Europe, especially France, hit by measles outbreak

Europe, especially France, has been hit by a major outbreak of measles, which the U.N. health agency is blaming on the failure to vaccinate all children.

- April 21, 2011

## Los Angeles Times

### California schools' risks rise as vaccinations drop

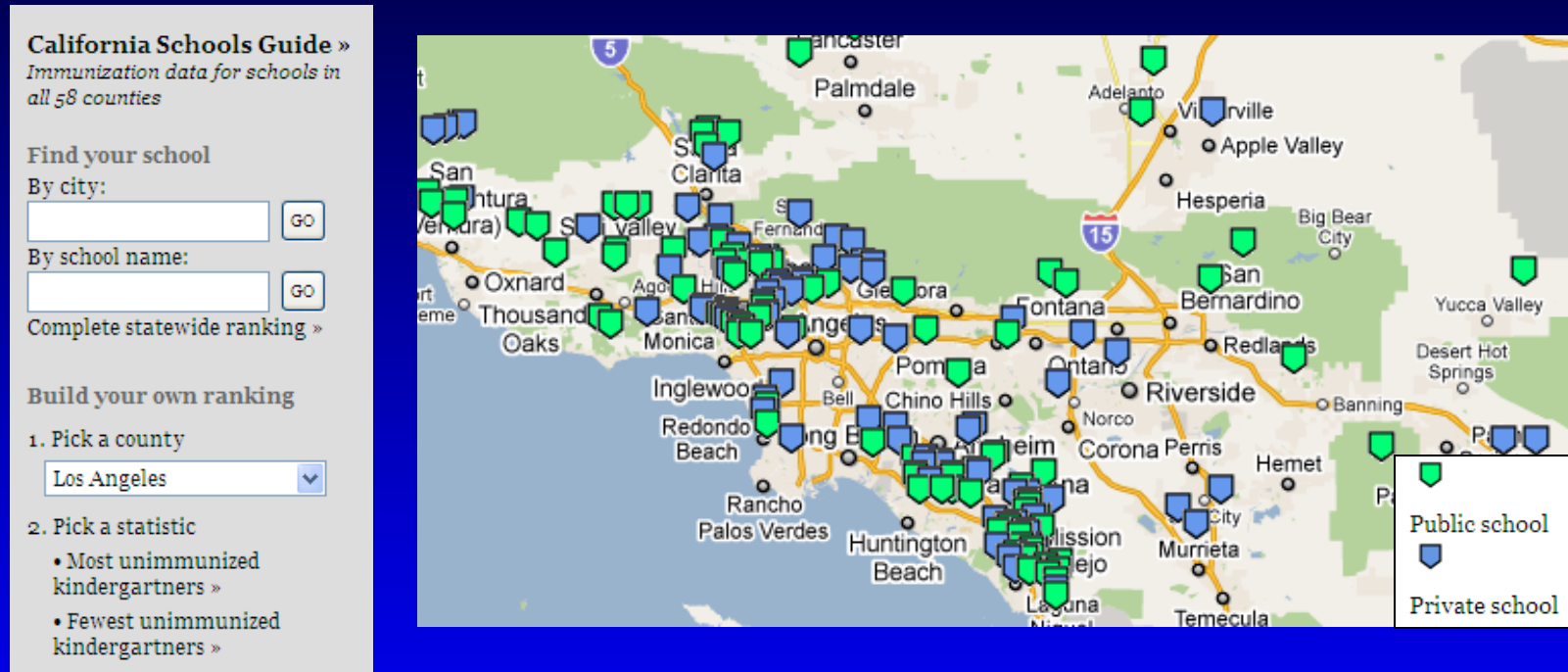
A Times analysis finds hundreds of campuses, which tend to be in more affluent areas, at risk for childhood disease outbreaks. Parents seem to fear shots more than mumps or measles.

- March 29, 2009



# Los Angeles Times

## Map: High-risk schools in Southern California



Outbreaks of childhood diseases are more likely at about 200 Southern California schools in large part because of parents choosing not to immunize. A Times analysis identified schools as at risk if at least 7.5% of entering kindergartners this school year were exempted from immunization. Most are schools in affluent areas.

### **California**

Exemptors were **35** times more likely to contract measles than were vaccinated persons...

Salmon DA, Haber M, Gangarosa EJ, Phillips L, Smith NJ, and Chen RT (1999). **Health Consequences of Religious and Philosophical Exemptions From Immunization Laws: Individual and Societal Risk of Measles.** *JAMA* 282:47-53.

### **Colorado**

Exemptors were, on average, **22** times more likely to acquire measles and **6** times more likely to acquire pertussis than vaccinated children...

In children of day care and primary school age, in whom contact rates and susceptibility are higher, these risk were approximately **62-fold** (*measles*) and **16-fold** (*pertussis*) greater...

Feikin DR, Lezotte DC, Hamman RF, Salmon DA, Chen RT, and Hoffman RE (2000). **Individual and Community Risks of Measles and Pertussis Associated With Personal Exemptions to Immunization.** *JAMA* 284:3145-3150.



## Current Immunization Requirements for Alaska Kindergarten Students

Vaccine	# Doses Required *
DTaP	5
Polio	3
MMR	2
Hepatitis A	2
Hepatitis B	3
Varicella	2

\* Exact number of doses may vary depending upon child's vaccine history

Alaska Immunization Regulations 4 AAC 06.055 and 7 AAC 57.550 require that all children in Alaska public/private schools, certified preschools, and licensed child care facilities be immunized, unless he/she is exempt due to medical contraindications, disease history, or religious reasons.

## ALASKA IMMUNIZATION REQUIREMENTS MEDICAL EXEMPTION & DISEASE HISTORY FORM

### MEDICAL EXEMPTION

In my professional opinion, the following immunizations would be injurious to the health of the above named child or members of the child's family or household.

Check "all vaccines" or appropriate

☐ All vaccines

☐ Diphtheria

☐ Measles

☐ Polio

☐ Varicella

### DISEASE HISTORY

Check appropriate antigen(s) – immunity due to history of disease

☐ Diphtheria

☐ Measles

☐ Polio

☐ Tetanus

☐ Mumps

☐ Hepatitis A

☐ Varicella

☐ Rubella

☐ Hepatitis B

For Pertussis & Hib – History of disease does not infer immunity. Vaccination is recommended.

NAME [Please Print] of MD, DO, ANP or PA

SIGNATURE of MD, DO, ANP or PA

Clinic Name

Check one: ☐ MD ☐ DO ☐ ANP ☐ PA

Date

Phone Number

## ALASKA IMMUNIZATION REQUIREMENTS RELIGIOUS EXEMPTION FORM

Religious exemption requests must be signed by the child's parent or guardian and contain the wording found in the Alaska Administrative Code **7 AAC 57.550 for child care** affirming that immunization conflicts with the tenets and practices of the church or religious denomination of which the parent or guardian is a member; or **4 AAC 06.055 for school** affirming that immunization conflicts with the tenets and practices of the church or religious denomination of which the applicant is a member.

*NOTE: Personal or philosophical exemptions are not allowed under Alaska regulations.*

To be completed by the child's parent or guardian.

I/We affirm that immunization conflicts with the tenets and practices of the church or religious denomination of which the applicant/parent/guardian is a member.

\_\_\_\_\_  
Signature of Parent or Guardian

\_\_\_\_\_  
Date

\_\_\_\_\_  
Telephone

State of \_\_\_\_\_

Judicial District \_\_\_\_\_ SS.

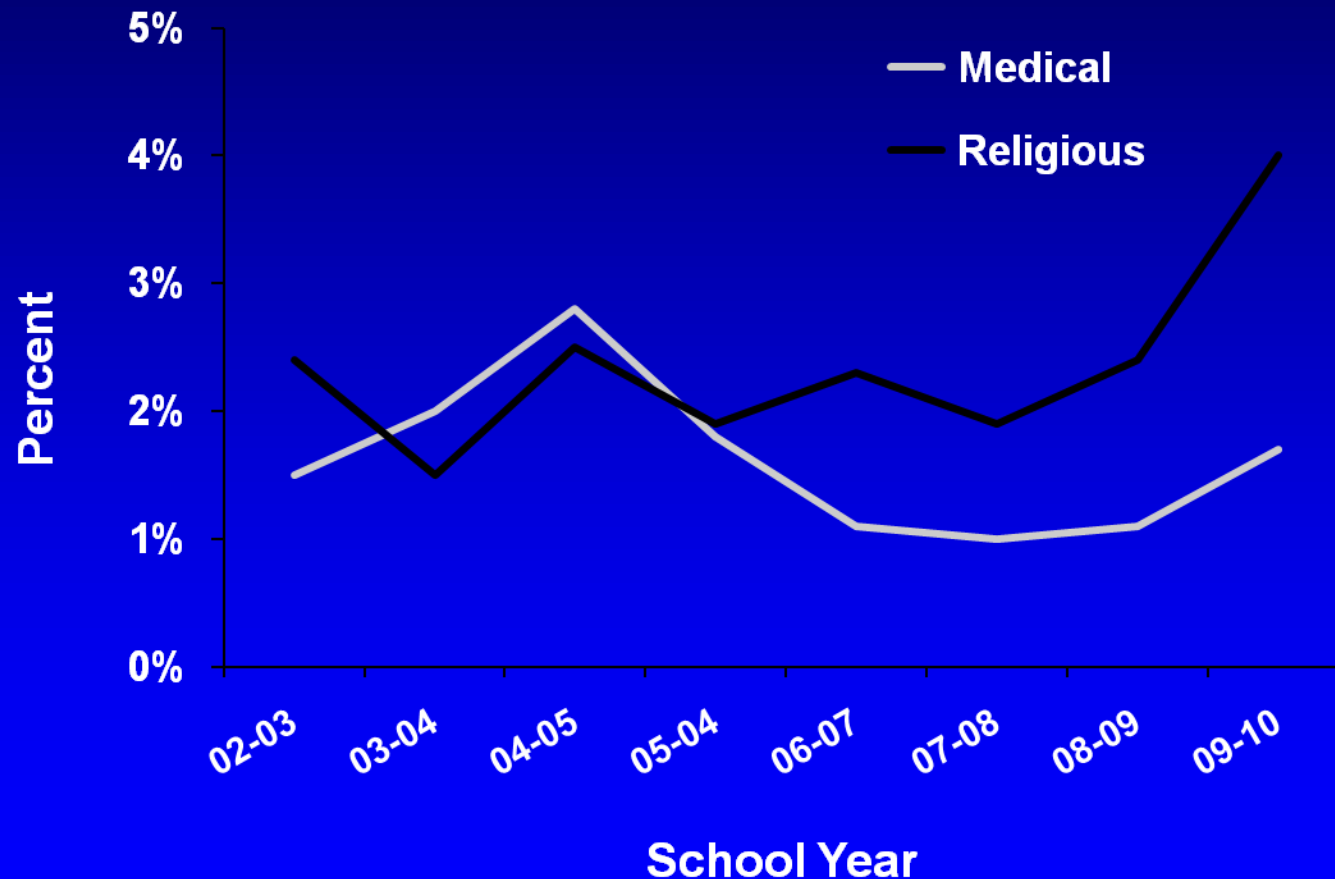
The Foregoing Instrument was acknowledged before me by

\_\_\_\_\_ on this \_\_\_\_\_ day of

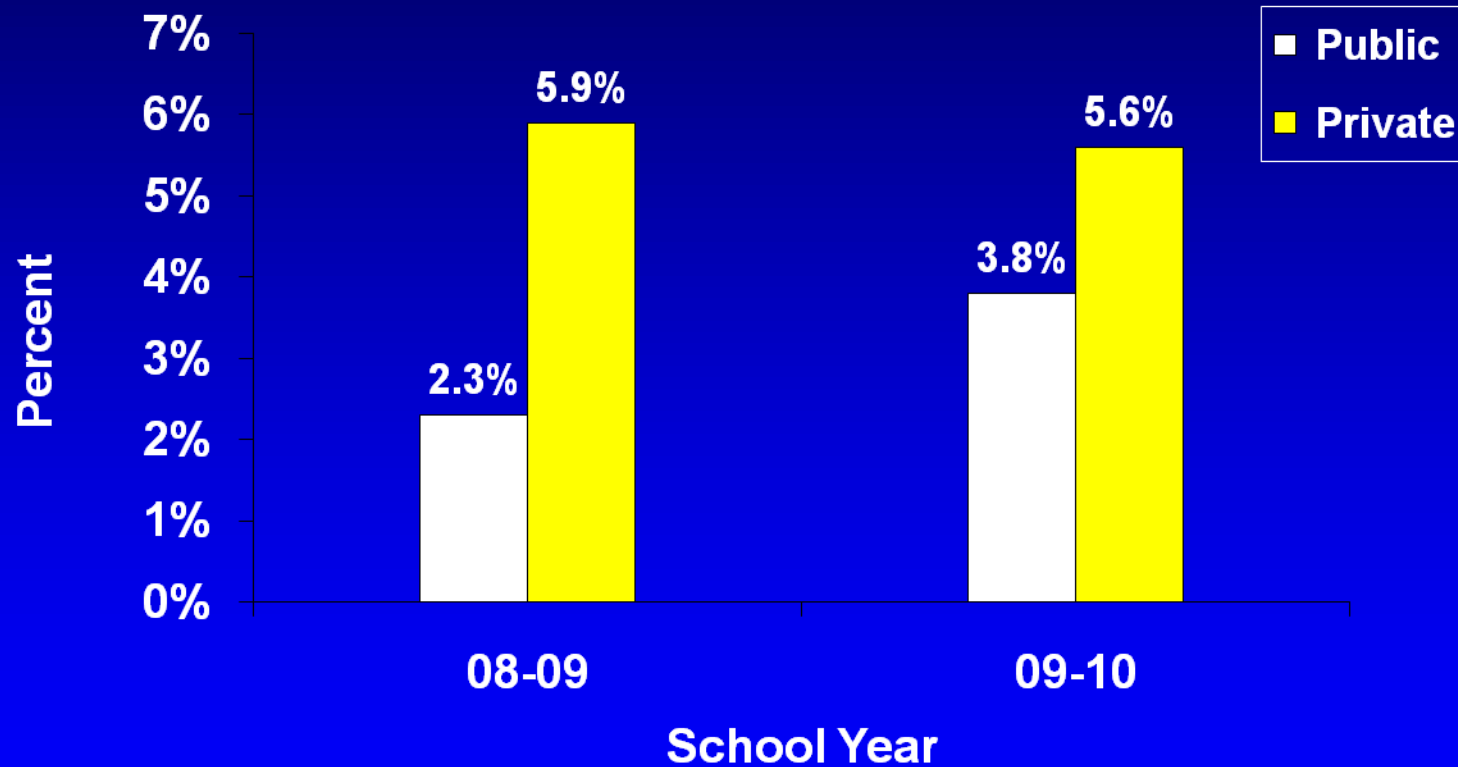
\_\_\_\_\_, 20 \_\_\_\_\_.

Witness my hand and seal.

# Percent of Alaska Kindergarten Students with a Medical or Religious Exemption to $\geq 1$ Required Vaccine, SY 02-03 thru 09-10



# Percent of Alaska Kindergarten Students with a Religious Exemption to $\geq 1$ Required Vaccine, Public & Private Schools, SY 08-09 and 09-10



	Public	Private
08-09	8,726	438
09-10	7,098	266

*State of Alaska  
Epidemiology*



# ***Bulletin***

Department of Health and Social Services  
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Bulletin No. 2 February 17, 2011

**Improving Immunization Coverage Rates in Alaska's Children**





# What is Public Health Doing to Increase Coverage Rates?

- **Established task force for systematic review**
- **Plans developed to:**
  - Strengthen partnerships with health care providers
  - Survey parents to determine perceived barriers to immunizations
  - Increase educational opportunities for providers and parents
  - Use VacTrAK for development and publications of coverage rates for specific communities
- **Review exemption procedures?**



# Evidence-Based Provider Interventions

- **Implement reminder/recall systems**
  - Remind parents/patients when vaccines due
  - Call back for missed appointments
- **Reduce missed opportunities to vaccinate**
  - Review record during EACH encounter
  - Be knowledgeable about contraindications
- **Maintain accurate and up-to-date records**
  - Enroll in VacTrAK & use as QA tool
- **Educate concerned parents**
  - Discuss risks/benefits
  - Provide good website information
- **Establish environment in which *entire* clinic team is committed to improving immunizations**

# Information Sources about Vaccinating Children

